Secure Data Hiding in H. 264/AVC10 Video using Intra Pulse Code Modulation Macro Block

Abstract

H. 264 is well known compression standard for raw video. Data hiding using general techniques will not sustain under this scheme. We propose a data hiding approach in IPCM block. Where these IPCM encoded macro blocks are modified in order to hide the desired data. In general video, the numbers of IPCM blocks generated are very less. A method is proposed to increase the number of IPCM blocks generated in H. 264 algorithm, by which more data can be hidden. It is a blind data hiding scheme, i.e. the encoded message can be extracted directly without the need of the original host video.

References


Index Terms

Computer Science
Security

Keywords
H. 264/AVC  Intra prediction  IPCM  Data hiding